AMENDMENTS TO THE CLAIMS

Docket No.: PIZ-10502/00

1. (Currently amended) Tree A tree pruning apparatus including:

an elongate supporting body locatable along the trunk of a tree to be pruned;

a pruning assembly mounted on and drivable along said supporting body and comprising a plurality of pruning jaws movable from between an open position and a closed position substantially encircling the trunk; and

a plurality of blade members assemblies mounted on said jaws, each of said blade assemblies and having cutting-edges forming a-substantially circumferential array when said jaws are in-their closed position; and

actuator means associated with each said blade member; and

individual sensor means associated with each actuator means and operable having a blade member with a cutting edge, an actuator adapted to move said blade member, and a sensor operably connected to said actuator to cause said actuator to move said blade member to dynamically maintain a selected clearance between the trunk and each said cutting edge.

- 2. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said-elongate supporting body is mounted on-a wheeled or tracked vehicle for locating the body-adjacent the tree trunk at least one of said jaws is of fixed shape.
- 3. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said vehicle is selected from powered and hand operated vehicles jaws move within the same horizontal plane.

Application No. 10/570,730 Reply to Office Action of July 27, 2007

3

Docket No.: P1Z-10502/00

4. (Currently amended) Tree <u>The tree</u> pruning apparatus according to Claim 1, wherein said elongate supporting body mounts said pruning assembly for movement by means selected from a track or moving chain actuators are independently operable.

- 5. (Currently amended) Tree The tree pruning apparatus according to Claim 4, wherein said pruning assembly is urged along a vertical track by means selected from a chain drive, ram, hydraulic motor, pneumatic motor or electric motor 1, wherein said blade assemblies on one of said jaws are in fixed position relative to one another.
- 6. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said jaws of the pruning assembly comprise a pair of jaws hinged together.
- 7. (Currently amended) Tree The tree pruning apparatus according to Claim 6, wherein one of said jaws is mounted for movement on said elongate supporting body.
- 8. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said jaws are each pivoted from a carrier portion engaging said elongate supporting body.
- 9. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said jaws are pneumatically operable by means selected from manual means, hydraulic actuation and pneumatic actuation.

Application No. 10/570,730 Reply to Office Action of July 27, 2007 4

Docket No.: PIZ-10502/00

- 10. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said sensor means comprises a mechanical sensor arm associated with the actuator means for each blade member and adapted to move along the trunk ahead of said blade member.
- 11. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said sensor means comprises electronic or optoelectronic distance sensing means associated with the actuator means for each blade member is electronic and adapted to send a signal to said actuator.
- 12. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said actuator means are selected from electric, pneumatic or hydraulic actuators is a pneumatic actuator.
- 13. (Currently amended) Tree The tree pruning apparatus according to Claim 12, wherein said actuator means are pneumatic actuator assemblies comprising a pneumatic actuator working against a spring further comprising a spring operably connected to said sensor, said spring working against said pneumatic actuator.
- 14. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said pruning assembly is operable to be driven along said elongate body member in use at a linear blade edge velocity of from approximately 1 to 2.5 m/sec.

Application No. 10/570,730 Reply to Office Action of July 27, 2007

Docket No.: PIZ-10502/00

15. (Currently amended) Tree The tree pruning apparatus according to Claim 13, wherein said pneumatic actuator and spring comprise a sensor/actuator assembly, wherein said

blade member is urged toward the trunk against the bias of said spring by said pneumatic

actuator which is continuously operable in response to a follower interacting with the tree-trunk

as said sensor.

- 16. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said blade members have arcuate cutting edges.
- 17. (Currently amended) Tree The tree pruning apparatus according to Claim 16, wherein said cutting edges describe-in combination form a substantially circular cutting edge in plan when in the closed position.
- 18. (Currently amended) Tree The tree pruning apparatus according to Claim 16, wherein said blade members are arrayed in two or-more axially displaced planes, whereby said cutting edges may overlap in plan overlapping arrangement when in the closed position.
- 19. (Currently amended) Tree The tree pruning apparatus according to Claim 1, wherein said blade members have a cutting edge of chisel-edged form with a substantially sheer face toward the trunk in use and a bevel from the cutting edge to the thickness of the blade body.
- 20. (Currently amended) Tree The tree pruning apparatus according to Claim 19, wherein said sheer face is relieved along said cutting edge at a relief angle of up to 6°C.

Docket No.: PIZ-10502/00

21. (Currently amended) A tree pruning method including the steps of:

locating an elongate supporting body alongside the trunk of a tree to be pruned;

closing pruning jaws of a pruning assembly mounted on and drivable along said supporting body to substantially encircle the trunk, said jaws mounting a plurality of blade members having cutting edges forming a substantially circumferential-array; the blade members being associated with respective actuator means and individual sensor means associated with each actuator means and operable to dynamically maintain a selected clearance between the trunk and each said-cutting edge; and

driving said pruning assembly along said elongate supporting body to prune said tree: and independently moving two adjacent blade members relative to one another as the pruning assembly is driven along the elongate supporting body.

22. (Currently amended) Tree A tree pruning apparatus including:

an elongate supporting body locatable alongside the trunk of a tree to be pruned;

a pruning assembly mounted on and drivable along said supporting body and comprising a plurality of pruning jaws movable from between an open position and a closed position substantially encircling the trunk;

a plurality of blade members mounted on said jaws, said blade members each and having cutting edges in circumferentially overlapping relation when said jaws are in their closed position;

actuator means associated with each said blade member a plurality of actuators operably connected to said blade members; and

Docket No.: PIZ-10502/00

individual sensor means associated with each actuator-means and operable a plurality of electronic sensors, said sensors being adapted to signal said actuators to move said blade members to dynamically maintain a selected clearance between the trunk and each said cutting edge edges.

23. (Currently amended) A tree pruning method including the steps of:

locating an elongate supporting body alongside the trunk of a tree to be pruned;

closing pruning jaws of a pruning assembly mounted on and drivable along said supporting body to substantially encircle the trunk, said jaws mounting a plurality of blade members having cutting edges in circumferentially overlapping relation, actuator means associated with each said blade member, and individual sensor means associated with each actuator means and operable to dynamically maintain a selected clearance between the trunk and each said cutting edge; and

driving said pruning assembly along said elongate supporting body to prune said tree;

electronically sensing the trunk of the three as the pruning assembly is driven along the elongate supporting body; and

individually moving one or more of said blade members in response to a signal from the electronic sensing.